

Tracking Footprints at the micro and meso scale: An application to the Spanish tourism by regions and municipalities

Topic: Environmental input-output modeling II

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The differences between the footprints estimations at the consumer and producer levels have been widely discussed in the literature of input-output with different treatment of responsibilities. Some methodological questions related to this are those related to the assumptions on the treatment of imports or sectoral scale at which the analysis are performed. In this case, we highlight the capabilities of combining the meso level input-output models with the GIS and micro data to lower the spatial scale, especially in order to provide information to local municipalities/villages/business on how to track their footprints, further than the level (17 Spanish regions or Autonomous Communities) at which we are capable of having economic input-output data. Previously we had developed a multiregional input-output model for these regions and the regions of European Union and Rest of the World, to move again towards the explicit spatial identification of areas of strong final demands (normally the most populated) linking them to the original hotspots or vulnerable areas, where most direct grey water consumption had taken place. Now we present a very specific application, where these aspects are shown more clearly since consumers and producers usually have very different origins, in particular looking at the tourism statistics, lifestyles and type of expenditures.